ABSTRACT

An uninterruptible power system has two current conversion units coupled between a line voltage and a load in parallel, wherein each current conversion unit has a rectifier and an inverter connected in series. The two rectifiers and inverters are further connected to form a cross configuration. At least one battery set is coupled to the output terminals of the two rectifiers, wherein a battery monitor controller is applied to monitor the battery information which is then transferred to a remote host. When either inverter or rectifier is faulty in one of said current conversion modules, the normal inverter or rectifier in the same module is still operated and controlled by the other current conversion module.